CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/VE/Consultants/69/2018-19

Dated: 11.05.2018

To,
Executive Engineer,
Dasarahalli Division,
BBMP, Bangalore.

Sir,

Sub: **Consultancy Services for the work of Improvements to drain at MEI layout at Bagalagunte in Ward No 14, BBMP, Bangalore.**

Ref: 1) EE/DD/WO/187/2017-18 Dated:11.01.2018
2) Job Code: 014-18-000019

We are herewith forwarding to M/s. Sri Venkateshwara Enterprises, First and Final Bill duly verified and certified that the work is satisfactory and for a Grand Total of Rs. 49,34,773.00 (Rupees Fourty Nine Lakhs Thirty Four Thousand Seven Hundred Seventy Three only) for further needful.

Thanking you,

Civil-Tech Consultants & Engineers Bangalore

Yours faithfully,
For Civil-Tech Consultants and Engineers

11.5.2018
Chief Executive Officer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/SVE/W.No.14/CSR-03/608j/CEMENT/2018-19 Date: 02.04.2018

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** T. Dasaaarahallli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Sri Venkateshwara Enterprises,** Bangalore.
* Name of Work	:	Improvements to drain at MEI Layout at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	EE/DD/WO/187/2017-18 Dated: 11.01.2018
* Sample ID	:	Cement
Sample Received on	:	31.03.2018
Period of Testing	:	31.03.2018 to 02.04.2018

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

****

VIDYARANI P.K.
Technical Manager

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T-2377

Job No.: CTCE/BBMP/SVE/W.No.14/CSR-03/608j/SAND-Gradation/2018-19 02.04.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** T. Dasaaarahalllli Sub Division, BBMP, Bangalore.
* Agency	: **M/s. Sri Venkateshwara Enterprises,** Bangalore.
* Name of Work	: Improvements to drain at MEI Layout at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	: EE/DD/WO/187/2017-18 Dated: 11.01.2018
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 31.03.2018
Date of Testing	: 02.04.2018

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.70	90-100	90-100	90-100	95-100
2.36	78.70	60-95	75-100	85-100	95-100
1.18	57.70	30-70	55-90	75-100	90-100
600 Micron	35.70	15-34	35-59	60-79	80-100
300 Micron	19.70	5-20	8-30	12-40	15-50
150 Micron	5.70	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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T-2377

Job No.: CTCE/BBMP/SVE/W.No.14/CSR-03/608j/AGG/GR/2018-19 02.04.2018

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T. Dasaaarahalllli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Sri Venkateshwara Enterprises,** Bangalore.
* Name of Work	:	Improvements to drain at MEI Layout at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	EE/DD/WO/187/2017-18 Dated: 11.01.2018
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	31.03.2018
Date of Testing	:	02.04.2018

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.48	95-100	85-100
20	40.48	30-70	0-20
10	15.48	10-35	0-5
4.75	1.48	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/SVE/W.No.14/Steel/2018-19

03.04.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** T. Dasaaarahallli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Sri Venkateshwara Enterprises,** Bangalore.
* Name of work	:	Improvements to drain at MEI Layout at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	EE/DD/WO/187/2017-18 Dated: 11.01.2018
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	03.04.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	517	558	13.3	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/SVE/W.No.14/CSR-03/008/Cube/2018-19 03.05.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP.
* Agency	: M/s. Sri Venkateshwara Enterprises, Bangalore.
* Name of the work	: Improvements to drain at MEI Layout at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	: EE/DD/WO/187/2017-18 Dated: 11.01.2018
* Sample ID	: RCC Drain Bed Slab Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 03.05.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.04.2018	03.05.2018	8.215	480.3	21.35
2	05.04.2018	03.05.2018	8.325	490.5	21.80
3	05.04.2018	03.05.2018	8.408	508.7	22.61

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